

Patent claims

1. A device for spondylodesis and in particular for  
5 anterior intersomatic spondylodesis of the  
cervical spine, with at least one intervertebral  
implant (3) and with at least one plate (4, 5)  
which is to be connected to the intervertebral  
implant (3) and to an adjacent vertebra (21-23),  
10 characterized in that the intervertebral implant  
(3) is connected to at least two plates (4, 5)  
which are arranged at a distance from one another,  
one end of each of the two plates (4, 5) forming a  
fixable joint together with the intervertebral  
15 implant (3).
2. The device as claimed in claim 1, characterized in  
that at least one of the plates (5, 4) has a Z-  
shaped, I-shaped or L-shaped configuration.
- 20 3. The device as claimed in claim 1 or 2,  
characterized in that at least one plate (5), in a  
central area (5c) extending transversely with  
respect to the longitudinal axis of the spinal  
column (24), has at least one passage (6) for a  
25 bone screw (25), so that this plate (5) can be  
connected to a vertebra (22).
4. The device as claimed in claim 3, characterized in  
30 that said area (5c) has two passages (6) arranged  
at a distance from one another and each intended  
for a bone screw (25).
5. The device as claimed in one of claims 1 - 4,  
35 characterized in that at least one plate (4, 5)  
has, at least at one end, a hemispherical and  
protruding joint part (18) which has a passage  
(17) for a locking screw (7) and which engages in  
a hemispherical depression (14) of an

intervertebral implant (3) in such a way that a ball joint is formed.

- 5        6.    The device as claimed in claim 5, characterized in that at least two plates (4, 5) are each connected to an intervertebral implant (3) via a polyaxial joint, in particular a ball joint.
- 10      7.    The device as claimed in one of claims 1 - 6, characterized in that at least two L-shaped plates (4) are connected to an intervertebral implant (3).
- 15      8.    The device as claimed in claim 7, characterized in that the two plates (4) each have, in an arm (4b) extending transversely with respect to the longitudinal direction of the spinal column (24), at least two passages (19) which are arranged at a distance from one another and each receive a bone screw (25).
- 20      9.    The device as claimed in one of claims 1 - 8, characterized in that two intervertebral implants (3) are connected to one another by a Z-shaped plate (5).
- 25      10.   The device as claimed in one of claims 1 - 9, characterized in that two intervertebral implants (3) are provided which are connected to one another by a Z-shaped plate (5) and on each of which an L-shaped or I-shaped plate (4) is secured, all the connections between the plates (4, 5) and the intervertebral implants (3) being designed as polyaxial joints, in particular ball joints.
- 30      11.   The device as claimed in one of claims 1 - 10, characterized in that at least one plate (4, 5) and/or an intervertebral implant (3) is/are made
- 35

of a material transparent to X-rays.

12. The device as claimed in one of claims 1 - 11,  
characterized in that it is provided for  
5 spondylodesis of the cervical spine.
13. A kit for producing the device as claimed in one  
of claims 1 - 12, with at least one intervertebral  
implant (3) and with at least one plate (4, 5) for  
10 connecting the intervertebral implant (3) to at  
least one vertebra (21-23), characterized in that  
at least one plate (4) is L-shaped and at least  
one plate (5) is Z-shaped, and in that at least  
one intervertebral implant (3) has two bores (13)  
15 which are arranged at a distance from one another  
and each receive a locking screw (7).
14. The kit as claimed in claim 13, characterized in  
that the intervertebral implant (3) and the plates  
20 (4, 5) each have at least one joint part (18) for  
forming a ball joint.
15. The kit as claimed in claim 13 or 14,  
characterized in that the intervertebral implant  
25 (3) and the plates (4, 5) are made of a material  
transparent to X-rays.
16. The kit as claimed in one of claims 13 - 15,  
characterized by a plurality of bone screws (25)  
30 and a plurality of locking screws (7).
17. The kit as claimed in claim 16, characterized in  
that the locking screws are ball-head screws  
having a screw head (8) which is substantially  
35 hemispherical on its underside.